AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claims 1-39 (canceled).

40. (new) A terminal that is capable of performing QoS control, comprising:

a monitor module configured to collect QoS information of the terminal and monitors whether QoS statistics exceed predetermined threshold values;

a communication module configured to report the QoS information collected by the monitor module to a central controller and receive QoS enforcement instructions from the central controller; and

an enforcement module configured to regulate a behaviour of the terminal according to the QoS enforcement instructions received by the communication module,

wherein, when the monitor module detects threshold violation where the QoS statistics exceed the predetermined threshold values, the enforcement module performs traffic regulation to correct the threshold violation.

41. (new) The terminal according to claim-40, wherein the monitor module collects the QoS information on Individual service sessions.

42. (new) The terminal according to claim 40, wherein the enforcement module compares a value indicated by the QoS enforcement instructions to a current measurement measured by the monitoring module, and adjusts QoS parameters to regulate the behaviour of the terminal if necessary.

43. (new) The terminal according to claim 40, wherein the enforcement module comprises at least any one of the following means:

means for classifying packets into different priorities within the terminal;

means for managing dropping of packets within the terminal when resource quota allocated to the terminal is used up;

means for reducing congestion at the terminal by lowering a transmission rate;

means for reducing congestion at the terminal by delaying transmission of packets when insufficient resource is allocated to the terminal;

means for terminating sessions and stopping transmission of packets;

means for reducing outgoing traffic by limiting total number of outgoing sessions;

means for reducing incoming traffic by limiting total number of incoming sessions; and

means for reducing incoming traffic by requesting for less incoming traffic.

44. (new) A communication system comprising:

a terminal that is capable of performing QoS control;

a central database configured to store subscription information of a user who uses the terminal and service level agreement information; and

a central controller configured to accept QoS reports on QoS information from the terminal and give QoS enforcement instructions to the terminal according to the QoS information, the subscription information and the service level agreement information stored in the central database,

wherein the terminal comprises:

a monitor module configured to collect the QoS information of the terminal and monitor whether QoS statistics exceed predetermined threshold values;

a communication module configured to report the QoS information collected by the monitor module to the central controller and receive the QoS enforcement instructions from the central controller; and

an enforcement module configured to regulate a behaviour of the terminal according to the QoS enforcement instructions received by the communication module, and

wherein, when the monitor module detects threshold violation where the QoS statistics exceed the predetermined threshold values, the enforcement module performs traffic regulation to correct the threshold violation.

45. (new) A communication method in a communication system, wherein the communication system comprises a terminal with a QoS control module that is capable of performing QoS control; a central database configured to store subscription information of a user who uses the terminal and service level agreement information; and a central controller configured to accept QoS reports on QoS information from the terminal and give QoS enforcement instructions to the terminal,

the communication method comprising:

a step where the QoS control module collects QoS information of the terminal and monitors whether QoS statistics exceed predetermined threshold values;

a step where the QoS control module reports the collected QoS information to the central controller;

a step where the central controller accepts QoS reports on the QoS information from the QoS control module;

a step where the central controller generates QoS enforcement instructions according to the QoS information received from the QoS control module, the subscription information and the service level agreement information stored in the central database;

a step where the central controller sends the QoS enforcement instructions to the QoS control module;

a step where the QoS control module regulates a behaviour of the terminal according to the QoS enforcement instructions received from the central server; and

a step where, when the QoS control module detects threshold violation where the QoS statistics exceed the predetermined threshold values, the QoS control module performs traffic regulation to correct the threshold violation.